

# Diffuser Specialist

## Flat Sheet S-82 Matte



## General Description

Diffuser Specialist flat sheet products are available in a variety of thicknesses and patterns, in acrylic, Hi-Impact acrylic, polycarbonate and other materials upon request.

Flat sheet products are versatile enough to be used as a lighting fixture enclosure or luminous ceiling diffuser. They ensure evenly illuminated lighting enclosures, reducing shadows and reflected glare.

The white acrylic panel has dual uses, with a textured finish on one side and a smooth finish on the other.

The P10 "cracked ice" pattern is an imaginative use of plastic panels, providing a sparkling crystal overhead affect. Non-linear in appearance, the asymmetric pattern provides complete lamp obscuration even in the shallowest plenum.

## Application

Diffuser Specialist flat sheet products are suitable for thermoforming, custom components, and as a diffuser lighting component.

## Ordering Information

Please call 1.800.880.5483 for price and delivery. Specify dimensions when placing an order.

## Notice

Diffuser Specialist assumes no responsibility for suitability of luminaires and applications. The use of lenses near and above 70°C temperatures with high UV output light sources will cause degradation of the material.

## Flat Sheet

### Materials:

Acrylic  
Acrylic Frost  
HID acrylic  
Hi-impact acrylic  
Polycarbonate

### Patterns:

Stipple  
Matte  
Fine Finish  
P10 Cracked Ice

Custom Colors Available

### S80 (smooth/smooth):

Clear - Acrylic  
Clear - Acrylic HID  
Clear - Polycarbonate  
White - Polycarbonate

### S81 (stipple/smooth):

Clear - Acrylic  
White - Acrylic

### S82 (matte/smooth):

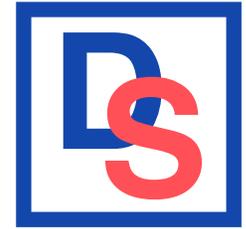
White - Acrylic  
Frost - Acrylic

### P10 Cracked Ice/smooth:

Clear - Acrylic  
White - Acrylic

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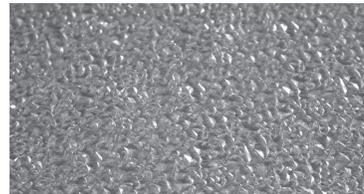
Pattern	Polymer	LT%	Thickness
S80 Smooth/Smooth			
S80 AC	Acrylic Clear	93%	.080 .125 .177 .220
S80 AC 118	Acrylic Clear	94%	.118
S80 AW	Acrylic White	60%	.080 .118
S80 HC	Acrylic White	93%	.118
S80 PC	HID Acrylic	93%	.118 .177
S81 Stipple/Smooth			
S81 AC	Acrylic Clear	93%	.040 .080 .100
S81 AW	Acrylic White	78%	.040
S81 AW	Acrylic White	60%	.080 .100 .125
S82 Acrylic Matte/smooth			
S82 FC	A. Clear 50% Frost	88%	.080
S82 FC	A. Clear 100% Frost	85%	.080
S82 FC	A. Clear 100% Frost	83%	.118
S82 FC	A. Clear 100% Frost	80%	.177
S82 XW HI-30	A. White 22% DR	26%	.140
S82 XW HI-30	A. White 22% DR	35%	.125
S82 XW HI-100	A. White 50% DR	55%	.125
S82 AW	A. White	60%	.060 .080 .100
S82 AW	Acrylic White	35%	.125
S82 AW	Acrylic White	30%	.187 .236
P10 Cracked Ice			
P10	Acrylic Clear	72%	.080
P10	Acrylic White	72%	.080



S81 Stipple



S80 Smooth



P10 Cracked Ice

**PLEASE INQUIRE FOR ADDITIONAL OFFERINGS**

### Materials

Diffuser Specialist uses a variety of materials in the production of sheet, profiles, formed and molded parts. Please be aware that Diffuser Specialist does not provide material certifications unless requested by the customer prior to quoting. Our standard manufacturing practice may include the use of reclaimed materials exceeding 25%.

Please visit our web site for the most current material specifications.